

Title (en)
FLAT HEAT ELEMENT FOR MICROVAPORIZER

Title (de)
FLACHES HEIZELEMENT FÜR MIKROVERDAMPFER

Title (fr)
ÉLÉMENT CHAUFFANT PLAT POUR MICROVAPORISATEUR

Publication
EP 3836813 A1 20210623 (EN)

Application
EP 19927666 A 20190506

Priority
CN 2019085707 W 20190506

Abstract (en)
[origin: WO2020223876A1] A heater assembly (20) is configured to vaporize a liquid. The heater assembly (20) includes a substrate plate (26,28) and a heating element (24) supported on the substrate plate (26,28). The heating element (24) includes a layer of electrically conducting material. The heater assembly (20) further includes a plurality of channels (46) formed by the electrically conducting material. Each of the plurality of channels (46) is configured to operate in parallel. Each channel (46) has an inlet end and an outlet end. The inlet end is configured to receive the liquid and the outlet end is configured to discharge vapor. The substrate plate (26,28) and the heating element (24) form a multi-layer configuration.

IPC 8 full level
A24F 47/00 (2020.01)

CPC (source: EP US)
A24F 40/10 (2020.01 - US); **A24F 40/42** (2020.01 - US); **A24F 40/44** (2020.01 - US); **A24F 40/46** (2020.01 - EP US); **A24F 40/48** (2020.01 - US); **A24F 40/57** (2020.01 - US); **H05B 1/0244** (2013.01 - US); **H05B 3/26** (2013.01 - US); **A24F 40/10** (2020.01 - EP); **A24F 40/44** (2020.01 - EP); **A24F 40/48** (2020.01 - EP); **H05B 2203/005** (2013.01 - US); **H05B 2203/021** (2013.01 - US); **H05B 2203/037** (2013.01 - US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2020223876 A1 20201112; CN 113840547 A 20211224; EP 3836813 A1 20210623; EP 3836813 A4 20210915; EP 3836813 B1 20230104; US 11457663 B2 20221004; US 2022117303 A1 20220421

DOCDB simple family (application)
CN 2019085707 W 20190506; CN 201980093747 A 20190506; EP 19927666 A 20190506; US 201917272510 A 20190506